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Observations of Comet f 1886 (*Barnard*), *made at the Royal Observatory, Greenwich.*

(*Communicated by the Astronomer Royal.*)

The observations were made with the East or Sheepshanks Equatorial, aperture 6·7 inches, by taking transits over two cross-wires at right angles to each other, and each inclined 45° to the parallel of Declination.

Comet f 1886.

1886.	Greenwich Mean Solar Time. h m s	Observer.	☄−✱ R.A. m s	Corr. for Par. and Refract. in R.A. s	☄−✱ N.P.D. ′ ″	Corr. for Par. and Refract. in N.P.D. ″	No. of Comp.	Apparent R.A. h m s	Apparent N.P.D. ° ′ ″	Comp. Star.
Nov. 17	18 0 31	T.	+0 40·00	−0·24	+ 8 24·5	−6·1	2	13 11 48·72	77 6 50·5	*a*
17	18 1 30		−0 29·70	−0·25	− 2 22·5	−6·5	1	13 11 50·29	77 6 23·3	*b*
18	17 5 26	H. T.	−3 32·85	−0·29	− 1 5·6	−6·3	6	13 18 35·82	76 41 14·9	*c*
30	17 25 57		+1 25·00	−0·40	+ 7 21·4	−6·6	3	15 7 23·80	72 17 52·0	*d*
30	17 48 7		+5 7·43	−0·40	− 2 28·8	−7·5	3	15 7 33·93	72 17 26·6	*e*
Dec. 2	17 55 49		−0 52·66	−0·40	+ 4 11·0	−7·1	8	15 29 30·29	72 1 55·4	*f*
7	5 29 34	T.	+0 38·15	+0·40	− 4 39·5	−7·8	4	6 19 45·65	72 17 2·1	*g*
7	5 34 45		−0 33·81	+0·50	− 8 36·8	−8·4	10	16 19 47·89	72 17 11·4	*h*
9	17 5 3	H. T.	+0 21·73	−0·30	+11 36·5	−4·7	3	16 47 9·83	72 57 5·5	*i*

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Mean Places of Comparison Stars.

Star's Name.	R.A. 1886·0.			N.P.D. 1886·0.			Authority.
	h	m	s	°	′	″	
a W.B. XIII. 151	13	11	8·05	76	58	22·9	Weisse's Bessel
b W.B. XIII. 171	13	12	19·33	77	8	43·3	,, ,,
c W.B. XIII. 325	13	22	8·08	76	42	18·1	Glasgow Catalogue
d W.B. (2) XV. 80	15	5	57·60	72	10	33·6	Weisse's Bessel (2)
e W.B. (2) XIV. 1323–4	15	2	26·25	72	19	59·0	,, ,,
f τ^3 Serpentis	15	30	22·76	71	57	49·7	Greenwich 9-year Catalogue
g W.B. (2) XVI. 532–3	16	19	6·49	72	21	51·4	Weisse's Bessel
h W.B. (2) XVI. 563	16	20	20·53	72	25	58·6	,, ,,
i W.B. (2) XVI. 1419	16	46	57·77	72	45	38·0	,, ,,

Notes.

The observations are corrected for parallax and refraction. The initials H. T. and T. are those of Mr. Turner and Mr. Thackeray respectively.

Royal Observatory, Greenwich :
1886, *December* 10.

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Observations of Comet Winnecke 1886, *made at Sydney Observatory with the* 11½ *Equatorial and filar micrometer.*

(*Communicated by H. C. Russell, B.A., Government Astronomer.*)

Date 1886.		Sydney M.T.	Star's Name.	Comparison Stars.		Diff. of Comet from Star.		Comet's position.		No. of Comp.
				R.A.	N.P.D.	R.A.	N.P.D.			
		h m s		h m s	° ′ ″	m s	′ ″	h m s	° ′ ″	
Sept.	2	7 39 18	25809 Lalande			− 0 27·32	+10 8·62			10
	7	7 23 13	4777 B.A.C.	14 19 7·81	102 50 10·98	− 0 51·30	+ 2 36·99	14 18 16·51	102 52 47·97	3
	8	7 35 32	5955 Wash. Gen. Cat.	14 19 13·38	103 34 15·01	+ 3 26·80	+ 2 4·53	14 22 40·18	103 36 19·54	5
	10	7 30 53	26481 Lalande			+ 6 29·75	− 4 9·45			2
	11	7 35 33	*27606 Lalande	14 34 15·19	105 42 58·56	+ 1 52·34	+ 3 41·27	14 36 7·53	105 46 39·83	10
	14	7 16 3	27033 Lalande			+ 4 39·38	+ 4 22·73			10
	15	7 31 24	27272 Lalande			+ 1 44·25	− 9 22·96			10
	16	7 45 33	8261 Cape Cat. '80	15 5 44·70	109 21 33·39	− 5 45·51	+ 4 12·89	14 59 59·19	109 25 46·28	8
	17	7 28 40	27567 Lalande			+ 1 37·38	+ 3 57·65			10
	18	7 25 34	6282 Wash. Gen. Cat.	15 12 10·60	110 41 11·47	− 2 10·40	+11 11·86	15 10 0·20	110 52 23·33	10
	20	8 16 17	27980 Lalande			+ 4 29·51	− 9 28·14			7
	20	8 57 44	†8301 Cape Cat. '80	15 9 47·92	111 58 36·84	+10 58·20	+22 44·99	15 20 46·12	112 21 21·83	2
	21	7 28 3	28282 Lalande			− 0 49·25	− 3 27·84			10
	22	8 15 8	8516 Cape Cat. '80	15 33 32·92	113 26 46·68	− 2 12·66	+18 59·32	15 31 20·26	113 45 46·00	5
	23	7 34 18	8559 Cape Cat. '80	15 39 4·33	114 21 21·40	− 2 21·18	+ 4 19·70	15 36 43·15	114 25 41·10	10
	24	7 39 11	8628 Cape Cat. '80	15 46 47·47	114 59 7·31	− 4 27·83	+ 8 7·86	15 42 19·64	115 7 15·17	10
	25	7 33 52	8676 Cape Cat. '80	15 51 58·84	115 47 4·66	− 3 58·30	+ 0 48·59	15 48 0·54	115 47 53·25	3
	28	7 34 9	8807 Cape Cat. '80	16 5 18·41	117 37 44·10	+ 0 18·16	+ 8 42·33	16 36·57	117 46 26·43	10
	29	7 31 2	8857 Cape Cat. '80	16 11 15·17	118 19 43·86	+ 0 23·19	+ 4 28·67	16 11 38·36	118 24 12·53	10

* This star was observed with the Sydney Transit Instrument on June 25, 1886.

† The difference between the comet and an 8½ mag. star first observed, then the difference between the 8½ mag. star and 8301 Cape Cat. '80.